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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,357	02/19/2004	Norman Herron	UC0409USNA	4173

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E I DU PONT DE NEMOURS AND COMPANY
LEGAL PATENT RECORDS CENTER
BARLEY MILL PLAZA 25/1122B
4417 LANCASTER PIKE
WILMINGTON, DE 19805

EXAMINER

THOMPSON, CAMIE S

ART UNIT	PAPER NUMBER
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1794

NOTIFICATION DATE	DELIVERY MODE
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08/07/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTO-Legal.PRC@usa.dupont.com

Office Action Summary	Application No. 10/782,357	Applicant(s) HERRON ET AL.	
	Examiner Camie S. Thompson	Art Unit 1794	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on amendment filed 4/09/09.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 and 13-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 24 is/are allowed.
- 6) ☒ Claim(s) 1-11, 13-23 and 25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 1794

DETAILED ACTION

1. Applicant's amendment and accompanying remarks filed April 9, 2009 are acknowledged.
2. Examiner acknowledges amended claims 1, 9 and 20.
3. Examiner acknowledges cancelled claim 12.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

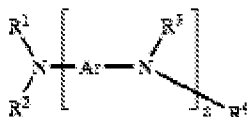
A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-8, 20-23 and 25 rejected under 35 U.S.C. 102(a) as being anticipated by WO03/064373, with the translation being relied upon by Richter et al., U.S. Pre Grant Publication 2005/0067951.

The reference discloses triarylamine derivatives uses as a hole transport material in electrographic and electroluminescent devices. The reference discloses that the triarylamine



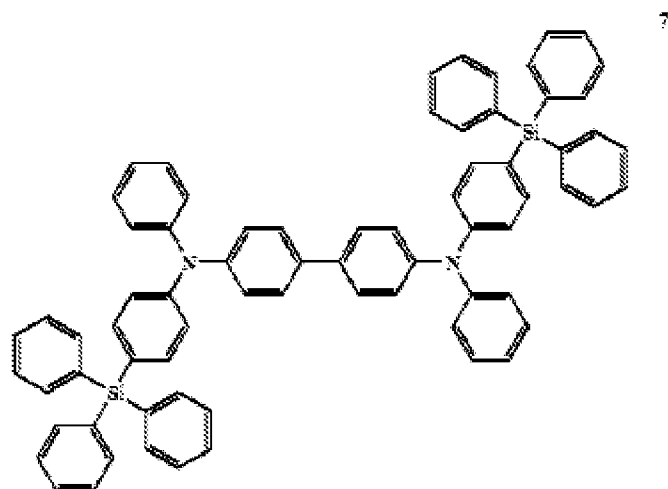
derivatives with the general formula

with Ar being biphenyl; R¹ to R⁴

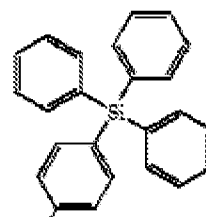
Art Unit: 1794

being the same or different being triarylsilyl-aryl, phenyl, naphthyl, anthryl or fluorenyl; and n is

1. The reference discloses compound 7



Compound 7 reads on the present claims when E is (SiR^5R^6) with R^5 and R^6 both being phenyl;



R^2 is hydrogen; R^3 is phenyl and R^1 is represent by the substituted aryl,

Art Unit: 1794

6. Claims 9-11, 13-23 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Tokoli et al., U.S. Patent Number 4,665,000.

Tokoli discloses compositions for photoresponsive imaging members or devices with hole transport layers wherein the composition comprises R-X-R₁ with R and R₁ being selected from arylamino, substituted arlamino and diarylamino groups and X is sulfur (see column 4, lines 7-49).

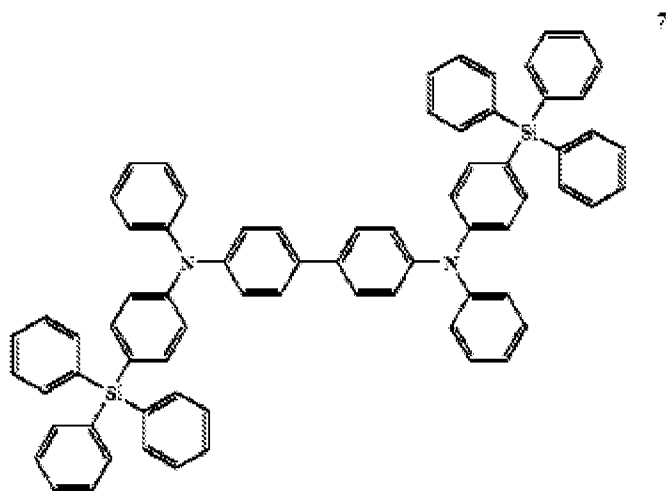
Allowable Subject Matter

7. Claim 24 is allowed. Applicant claims process for producing a polymer of instant formulae (I) and (II). The closest prior art, Tokoli et al., U.S. Patent Number 4,665,000 and Richter et al., U.S. Pre Grant Publication 2005/0067951, disclose triarylaminines used in electronic devices. Neither Tokoli nor Richter discloses a process of producing a polymer by reacting two or more of compounds having the general formulae of (I) or (II) in the presence of copper, nickel or palladium catalyst at a temperature of 22 deg C to 150 deg C for 24 to 92 hours to form a first polymer; treating the polymer with an endcapping group and further reacting the capped polymer for 24 to 48 hours.

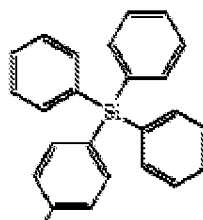
Response to Arguments

8. Applicant's arguments filed April 9, 2009 have been fully considered but they are not persuasive. Applicant argues that the "Richter" reference does not disclose that R³ to be phenyl. The present claims recite that R¹ can be aryl and R³ is aryl and is specifically phenyl when E is Si(R⁵R⁶)_m with m being 1. The reference discloses the structure

Art Unit: 1794

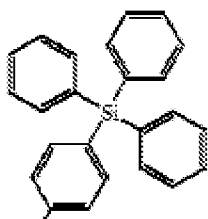


. The structure of the reference reads



on the present claims when R^3 is phenyl; R^1 is

(substituted aryl); E is



and R^2 is hydrogen. The “Richter” reference is maintained.

Applicant argues that Tokoli does not have a formula (III) where E is O or S and R^2 is not hydrogen. Tokoli discloses a compound with the structure $R-X-R^1$ with R and R^1 being selected from arylamino, substituted arylamino and diarylamino groups and X is sulfur (see column 4, lines 7-49). Tokoli reads on formula III of the present claims when E is sulfur; R and R^1 can both be diarylamino groups. Tokoli also discloses that the diarylamino groups can be substituted with alkyl groups (see column 4, lines 50-55). When the diarylamino groups are substituted with

Art Unit: 1794

an alkyl group, the Tokoli reference reads on present claims 9 and 20 for R² being an alkyl group. The Tokoli reference is maintained.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, D. Lawrence Tarazano, can be reached at (571) 272-1515. The fax phone number for the Group is 571-273-8300.

Art Unit: 1794

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or would like to access the automated information system, call (800) 786-9199 (IN USA OR CANADA) or 571-272-1530.

/Camie S Thompson/

Examiner, Art Unit 1794

/D. Lawrence Tarazano/

Supervisory Patent Examiner, Art Unit 1794